

Appl. No. 10/749,338
Amdt. Dated Jan. 5, 2006
Reply to Office Action of November 21, 2005

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A light guide plate, comprising:
a transparent plate having a light emitting surface, and a bottom surface opposite to the light emitting surface; and
a plurality of optical embossments arranged on the light emitting surface continuously side-by-side in rows and columns,
wherein each of the optical embossments is substantially hemispherical or partially hemispherical.

Claim 2 (original): The light guide plate as recited in claim 1, wherein the transparent plate is substantially a flat panel or is trapezoidal.

Claim 3 (original): The light guide plate as recited in claim 1, wherein the transparent plate is made from polymethyl methacrylate (PMMA).

Claim 4 (original): The light guide plate as recited in claim 1, wherein the optical embossments are made from polymethyl methacrylate (PMMA).

Claim 5 (original): The light guide plate as recited in claim 1, wherein the optical embossments are integrally formed with the light guide plate.

Appl. No. 10/749,338
Amdt. Dated Jan. 5, 2006
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Claim 6 (canceled).

Claim 7 (original): The light guide plate as recited in claim 1, wherein the optical embossments having uniform dimensions, and are evenly distributed on the emitting surface of the transparent plate.

Claim 8 (currently amended): ~~The light guide plate as recited in claim 1,~~
A light guide plate, comprising:

a transparent plate having a light emitting surface, and a bottom surface opposite to the light emitting surface; and

a plurality of optical embossments arranged on the light emitting surface continuously side-by-side in rows and columns,

wherein the transparent plate further has a plurality of dots evenly distributed on the bottom surface.

Claim 9 (original): The light guide plate as recited in claim 8, wherein the dots have uniform dimensions.

Claim 10 (original): The light guide plate as recited in claim 9, wherein the dots are generally hemispherical, partially hemispherical, dome-shaped, frustum-shaped, or cylindrical.

Claim 11 (original): The light guide plate as recited in claim 9, wherein the dots are hollow regions that are hemispherical, partially hemispherical, concave, frustum-shaped, or cylindrical.

Appl. No. 10/749,338
Amdt. Dated Jan. 5, 2006
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Claim 12 (original): The light guide plate as recited in claim 8, wherein a diameter of each of the dots is larger than a corresponding diameter or width of each of the optical embossments.

Claims 13-14 (canceled).

Claim 15 (currently amended): ~~The backlight system as recited in claim 13,~~ A backlight system, comprising:

a light guide plate including a transparent plate having a light emitting surface, a bottom surface opposite to the light emitting surface, and a plurality of optical embossments the evenly distributed on the light emitting surface of the light guide plate continuously side-by-side in rows and columns; and

a light source arranged at a side of the light guide plate, wherein said embossments are further applied upon the bottom surface.

Claim 16 (previously presented): A light guide plate, comprising:

a transparent plate having a light emitting surface, a bottom surface opposite to the light emitting surface, and a plurality of dots evenly distributed on the bottom surface, the dots having uniform dimensions and being generally hemispherical, partially hemispherical, dome-shaped, frustum-shaped, or cylindrical; and

a plurality of optical embossments arranged on the light emitting surface.

Claim 17 (previously presented): A light guide plate, comprising:

a transparent plate having a light emitting surface, a bottom surface

Appl. No. 10/749,338
Amdt. Dated Jan. 5, 2006
Reply to Office Action of November 21, 2005

opposite to the light emitting surface, and a plurality of dots evenly distributed on the bottom surface, the dots having uniform dimensions and being hollow regions that are hemispherical, partially hemispherical, concave, frustum-shaped, or cylindrical; and

a plurality of optical embossments arranged on the light emitting surface.